

Nikkalite

F-CAL (EF-40801)

1. INTRODUCTION

F-Cal (EF-40801), is a highly transparent marking film with a pressure-sensitive adhesive and release paper. F-Cal has excellent chemical resistance, weatherability, dimensional stability, and flexibility characteristics.

2. CHARACTERISTICS

- a. Excellent weather resistance and transparency.
- b. Easy to apply and process.
- c. Excellent adhesion to Nikkalite® sheetings.
- d. Can be used in wide ranges of temperatures (-30°F to 120°F)

3. ADHESIVE BOND

Manufacturer's testing has found the adhesive to form a durable bond to the following retroreflective sheetings:

- a) Nikkalite® Engineering Grade Sheeting (EG)
- b) Nikkalite® Super Engineering Grade Sheeting (SEG)
- c) Nikkalite® Ultralite Grade Sheeting (ULG)

Since the surface of F-Cal is very smooth, the manufacturer does not recommend overlapping the film during application.

(If F-Cal is applied to any surface other than Nikkalite® reflective sheeting used for conventional traffic signs, prospective users should contact Nippon Carbide Industries (USA) Inc. for advice before such applications).

4. COLORS

F-Cal is available in clear transparent only (Graffiti Resistant).

5. Features

Hi-S Cal EF-40801 film is made of pure fluoride resin and can be used for 10 years or more in the outdoors. The film has superior UV-resistance and UV-absorbency so durability of the substrate overlaid with EF-40801 also increases.

Hi-S Cal film is resistant to staining and almost all types of solvents. The film acts like a barrier to spray paint and surface contamination and can be easily cleaned with a solvent-wipe.

6. Applications

When Hi-S Cal EF-40801 is applied as a protective transparent overlay film on a retroreflective sign, the sign will have a longer performance life. The sign will also be easier to maintain, because surface contamination such as stains, graffiti and bills on the film can be easily removed.

7. Instructions for Applications

Screened ink must be completely dried prior to applying Hi-S Cal EF-40801. The sign surface should be cleaned and dried prior to application.

Hi-S Cal EF-40801 does not adhere to itself.

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Warning

Do not burn or place near heat or fire. Harmful gas will be emitted if caught on fire.

Material	Fluorine Resin
Thickness of film	0.040mm
Tensile Strength	57N/25mmm
Tensile Elongation	300%
Dimensional Stability	20N/25mm
Adhesion strength when laminated on: - Painted Panel - Nikkalite ULG	20N/25mm 12N/25mm
Shelf Life	2 Years
UV Transmittance - Visible Light - 400nm - 320nm	94% 85% 0%
Durability	10 Years
Application Temperature	50°F-95°F
Chemical and Solvent Resistance - Petrol - Turpentine - Ethyl Acetate - Toluene	No change in 1 hour No change in 24 hours No change in 1 minute No change in 1 minute
Graffiti removability after 80°Fx72 hours - Lip Stick - Black Permanent Marker	Removable with solvent Removable with solvent
Flammability	Self-extinguishing
Available size rolls - Widths - Lengths	24", 30", 36" & 48" 50Yds

The values are intended only as a source of information. They are given without guarantee and do not constitute a warranty.